

## Best Available Copy

## Appendix A (page 1 of 3)

MARG.G.....ELS.GV.....RG.....AAA.....APISLG						Consensus #1
	10	20	30	40	50	
1	MARGDGGQLA	-----ELSAGV	-----RG-----	AAAVVDHVAPISLG		BB1162USNASEqIdNo2
1	MARGSGAGGGGGGGL	ELSVGVGGGARGGGG	EEAAAVEATAAPISLG			BB1162USNASEqIdNo26
1	MARGDGEL	-----ELSVGV	-----RGTGGAAAAA	ADHVAPISLG		GI 5771354
RLIL.GMVAGGVQYGWALQLSLTPYVQTLGLSHALTSFMWICGPIAG.V						Consensus #1
	60	70	80	90	100	
33	RLILAGMVAGGVQYGWALQLSLTPYVQTLGLSHALTSFMWICGPIAGLV					BB1162USNASEqIdNo2
51	RLILSGMVAGGVQYGWALQLSLTPYVQTLGLSHALTSFMWICGPIAGMV					BB1162USNASEqIdNo26
36	RLILAGMVAGGVQYGWALQLSLTPYVQTLGLSHALTSFMWICGPIAGLV					GI 5771354
VQP.VGLYSDRCT..WGRRRP.IL.GC.LIC.AV.V.GFS.DIG.A.GDT						Consensus #1
	110	120	130	140	150	
83	VQPLVGLYSDRCTSRWGRRRPFI	LTGCM	LICVAVIVVGFSSDIGAALGDT			BB1162USNASEqIdNo2
101	VQPCVGLYSDRCTSKWGRRRPFI	LTGCV	LICLAVVIGFSA	DIGYAMGDT		BB1162USNASEqIdNo26
86	VQPLVGLYSDRCTARWGRRRPFI	LTGCM	LICLAVIVVGFSSDIGAALGDT			GI 5771354
KE.CS.YHG.RWHAAIYVVLGFWLLDFSNTVQGPARA.MADL...HGP.						Consensus #1
	160	170	180	190	200	
133	KEHCSLYHGPRWHAAIYVVLGFWLLDFSNTVQGPARAMMADLC	DHHG	PS			BB1162USNASEqIdNo2
151	KEHCSLYHGPRWHAAIYVVLGFWLLDFSNTVQGPARAMMADLC	GRHGP				BB1162USNASEqIdNo26
136	KEHCSLYHGPRWHAAIYVVLGFWLLDFSNTVQGPARAMMADLC	GRHGP				GI 5771354



## Appendix A (page 2 of 3)

	.ANSIFCSWMA.GNIIIGYSSGSTNNWHKWF.FL.T.ACCEACANLKGAF.L	Consensus #1
	210 220 230 240 250	
183	AANSIFCSWMA.LGNIIIGYSSGSTNNWHKWF.FL.KTSA.CCEACANLKGAF.L	BB1162USNASEqIdNo2
201	TANSIFCSWMA.MGNIIIGYSSGSTNNWHKWF.FL.KTSA.CCEACANLKGAF.L	BB1162USNASEqIdNo26
186	AANSIFCSWMA.LGNIIIGYSSGSTNNWHKWF.FL.LTNACCEACANLKGAF.L	GI 5771354
	VAV.FL..CL..TL..FA.EVP...N..LPT.K...E.E..GPLAVLKG	Consensus #1
	260 270 280 290 300	
233	VAVFVLCLTVTLIFAKEVPYRANENLPTTKAGGEVETEPTGPLAVLKG	BB1162USNASEqIdNo2
251	VAVIFLSLCLVITLIFAKEVPFKGNAALPT-KSNEPAEPFGTGPLAVLKG	BB1162USNASEqIdNo26
236	VAVFVLVCLTVTLFFANFANVPYRGNQNLPT-KANGEVETEPTGPLAVLKG	GI 5771354
	F..LP.GMP.SVL.VT..TWLSWFFPFI.LYD.TDWMGREI.YHGDPKG...QI.	Consensus #1
	310 320 330 340 350	
283	FKDLPPGMP.SVLLVTAITWLSWFFPFI.LYD.TDWMGREI.YHGDPKGSNAQIS	BB1162USNASEqIdNo2
300	FRNLPTGMP.SVLLIVTGLTWLSWFFPFI.LYD.TDWMGREI.YHGDPKGTDPQIE	BB1162USNASEqIdNo26
285	FKNLPTGMP.SVLLIVTGLTWLSWFFPFI.LYD.TDWMGREI.YHGDPKGSNAQIS	GI 5771354
	AF..GVR.G.FGLLLNS..LGFSSFLIEPMCRKVGPVVWVTSNF.VC.A	Consensus #1
	360 370 380 390 400	
333	AFNEGVRVGA.FGLLLNSVILGFSSFLIEPMCRKVGPVVWVTSNFMVCVA	BB1162USNASEqIdNo2
350	AFNQGVRA.GAFGLLLNSTVLGFSSFLIEPMCRKVGPVVWVTSNFMVCIA	BB1162USNASEqIdNo26
335	AFDEGVRVGS.FGLLLNSTVLGFSSFLIEPMCRKVGPVVWVTSNFMVCVA	GI 5771354

## Appendix A (page 3 of 3)

	MAATALISFWSL.D.HG.VQ.AITA..SIKAVCLVLF AFLGVPLA.LYSV	Consensus #1
	410 420 430 440 450	
383	MAATALISFWSLRDYHGYVQDAITANASIKAVCLVLF AFLGVPLA.LYSV	BB1162USNASEqIdNo2
400	MAATALISFWSLKDHFHGTQKAITADKSIKAVCLVLF AFLGVPLA.LYSV	BB1162USNASEqIdNo26
385	MAATALISFWSLKDYGHYVQDAITASTSIKAVCLVLF AFLGVPLA.LYSV	GI 5771354
	PFAVTAQLAAT.GGGQGGLCTGVNLNISIVIPQV.IALGAGPWD.LFGKGNI	Consensus #1
	460 470 480 490 500	
433	PFAVTAQLAATRGGGQGLCTGVNLNISIVIPQV.IALGAGPWDALFGKGNI	BB1162USNASEqIdNo2
450	PFAVTAQLAATRGGGQGLCTGVNLNISIVIPQV.IALGAGPWDALFGKGNI	BB1162USNASEqIdNo26
435	PFAVTAQLAATKGGGQGLCTGVNLNISIVIPQV.IALGAGPWDALFGKGNI	GI 5771354
	PAFG.AS.FAL.GGV.G.FLLPKISKRRQF..VS..GGH	Consensus #1
	510 520 530	
483	PAFGVASAFALVGGVVGVFFLLPKISKRRQFRAVS-AGGH	BB1162USNASEqIdNo2
500	PAFGLASGFALIGGVAGIFLLPKISKRRQFWSVSMGGGH	BB1162USNASEqIdNo26
485	PAFGVASGFALIGGVVGVFFLLPKISKRRQFRAVS-AGGH	GI 5771354

Consensus #1: When all match the residue on the Consensus show the residue of the Consensus, otherwise show ‘.’

Shade (with black at 40% fill) residues that match the consensus named “Consensus #1” exactly.

Conserved cysteine residues are indicated by boxes.